TABLE 1. DEVICE PARAMETERS 1/

JPL PART NO. ST12173-	MFR	GENERIC PART NO.	DEVICE TYPE 2/	PACKAGE STYLE 2/	RADIATION LEVEL (TID) (RADS) 4/	ELECTRICAL PERFORMANCE CHARACTERISTICS 2/	TERMINAL CONNECTIONS 2/	ELECTRICAL TEST REQUIRE-MENTS 2/ 3/	BURN-IN CIRCUITS 2/ 3/
01009TR	LINEAR TECH	RH1009	02	X(3-LEAD CAN)	100k	TABLE I	FIG. 2	TABLE II HEREIN	FIG. 7

NOTES:

1/ THIS DRAWING, IN CONJUNCTION WITH CS515577 AND MIL-M-38510/148, IMPOSES ALL REQUIREMENTS FOR PROCUREMENT OF THESE DEVICES.

2/ REFER TO MIL-M-38510/148. DURING ELECTRICAL TESTING, BURN-IN, LIFE TEST AND RADIATION TEST, ALL UNUSED INPUTS SHALL BE PROPERLY TERMINATED.

3/ SCREENING SHALL BE IN ACCORDANCE WITH THE CLASS S REQUIREMENTS OF MIL-M-38510/148 EXCEPT:

- THE BURN-IN TEMPERATURE SHALL BE 125 +3/-0°C AND DURATION 240 HOURS.
- DELTA LIMITS OF TABLE IV SHALL APPLY AFTER EACH BURN-IN.
- TABLE II HEREIN SHALL BE SUBSTITUTED FOR TABLE II OF MIL-M-38510/148.

4/ EACH LOT SHALL PASS GROUP E, SUBGROUP 2 RADIATION TEST. THE DC PARAMETERS (3/) SHALL BE MEASURED AND RECORDED AT 25°C BEFORE AND AFTER IRRADIATION. THE PARAMETRIC LIMITS SHALL BE THOSE FOR 25°C FOR PRE-IRRADIATION, AND THOSE OF TABLE III HEREIN FOR POST-IRRADIATION.

5. THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.

TABLE II. ELECTRICAL TEST REQUIREMENTS

TEST	SUBGROUPS (PER MIL-M-38510/11402, TABLE III)
PRE BURN-IN	1
POST 240-HOUR BURN-IN	1, 2, 3, 4, 5, 6
DELTA CALCULATIONS*	
GROUP B END POINTS**	1, 2, 3, 4, 5, 6

* IN ACCORDANCE WITH MIL-M-38510/148, TABLE IV.

** MIL-M-38510/14802 FIGURE 7 SHALL BE USED FOR GROUP B.5 LIFE TESTS.

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APPROVED SOURCE(S)

THE ITEM LISTED IN THE APPROVED SOURCE BLOCK AND IDENTIFIED BY VENDOR NAME, ADDRESS, AND PART NUMBER WILL BE EVALUATED AND TESTED BY THE JPL ELECTRONIC PARTS RELIABILITY SECTION OR ITS DELEGATED ALTERNATE BEFORE BEING APPROVED FOR USE. NON-JPL USERS SHALL CHECK WITH THE ELECTRONIC PARTS RELIABILITY SECTION ON THE STATUS OF THE PART'S APPROVAL BEFORE USING.

VENDOR PART NO	VENDOR	JPL PART NO

JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY CAGE NO 23835

Procurement specification: CS515577
Screening specification: ZPP-2073-GEN

Custodian: Electronic Parts Reliability Section 514

TITLE:
MICROCIRCUIT, LINEAR, PRECISION VOLTAGE REFERENCE, SHUNT REGULATOR, 2.5V

DETAIL SPECIFICATION

ST 12173

SHEET 1 OF 2

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TABLE III. POST IRRADIATION ELECTRICAL TEST LIMITS

SYMBOL	TEST NAME	CONDITIONS Ta= +25°C	LIMITS POST 100k		UNITS
			MIN	MAX	
V_Z	REVERSE BREAKDOWN VOLTAGE	I_Z = 1mA	2.495	2.505	V
$\frac{\Delta V_Z}{\Delta I_Z}$	REVERSE BREAKDOWN VOLTAGE CHANGE WITH CURRENT	400 µA≤ I_Z ≤ 10mA		10	mV
r_Z	REVERSE DYNAMIC IMPEDANCE 1/	I_Z = 1mA		1.0	Ω

NOTE: 1/ GUARANTEED BY DESIGN, CHARACTERIZATION, OR CORRELATION TO OTHER TESTED PARAMETERS.

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